

Name \_\_\_\_\_ Date \_\_\_\_\_

# *IMAGINARY NUMBERS*

**Algebra 2**  
**Unit #3**  
**WS #4**

Simplify

1. $i^{42} =$
2. $i^{57} =$
3. $i^{41} =$
4. $i^{48} =$
5. $\sqrt{-10} =$
6. $\sqrt{-81} =$
7. $\sqrt{-72} =$
8. $\sqrt{-80} =$
9. $13i - 5i =$
10. $\sqrt{-49} - 4i =$
11. $5\sqrt{-24} - 2\sqrt{-18} =$
12. $\sqrt{-144} \cdot \sqrt{-16} =$
13. $\sqrt{-20} \cdot \sqrt{-45} =$
14. $\sqrt{-32} \cdot \sqrt{-63} =$
15. $\frac{20i}{12i} =$
16. $\frac{6\sqrt{5}}{5\sqrt{-3}} =$